Project

Analysis and Design of Power Dividers

Name:
Group:
ID:

Hints:

- Use this template for solving. Solve the questions in the space provided.
- The Project’s submission deadline is on Wednesday 18/03/2020.
- The project will be graded through your delivered report AND an individual evaluation. Evaluation slots will be announced later. A list will be hung on the TA’s office door (C3.205) with all slots available for the evaluation to be filled on a first come-first serve basis.
- Late submissions will Not be accepted!
- Any two similar versions will be graded ZERO!
I. The following information must be provided:

1. Figure of the Power divider
2. Is the Power divider reciprocal?

3. Define the symmetric ports
II. Even Mode Analysis:
III. Odd Mode Analysis:
IV. Feeding from the odd port (Port 1)
V. The derived S-Matrix of the given power divider
VI. ADS Schematic:
VII. Simulated S-parameters in dB using ADS with comments on each curve:

1. $S_{11}, S_{22}, S_{33}$

2. $S_{21}, S_{31}, S_{12}, S_{13}$

3. $S_{23}, S_{32}$